Introducing Ramionics (Ramin Theory & Ramion Based Physics) To Resolve the Fine-Structure and other Constant, Dark Matter, Anti matter Asymmetry, Quantumised Gravity Problems

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Introduction and energy equation

Ramin's Ramion theory explains how this universe is made from **only and only exactly one basic particle** (at FCC lattice) named Ramion (Rotational **A**nti-matter and **M**atter **I**on): an absolute energy $\mathbf{E_r}$ in form of **three-dimensional sphere** with real, measurable and calculatable parameters like energy $\mathbf{E_r}$, pressure **P** ,energy density $\boldsymbol{\rho_r} = \frac{\mathbf{E_r}}{\mathbf{V}}$,volume $\mathbf{V}= \frac{4\pi}{3}\mathbf{r^3}$, radius **r** ,angular speed **ω**, rotational speed on its surface(**v=r. ω =c=light speed**) , torque **T**, Moment inertia **I**, mass equivalent to its energy $\mathbf{m}=\frac{\mathbf{E_r}}{\mathbf{c^2}}$ and even spin and electrical charge $\pm\mathbf{q_r}$ and Coulomb constant $\mathbf{k_r}$ and two poles: north and south! In ramionics we need no extra dimension in space or time and no imaginal or modelled parameters or Force Carrier particles.

Ramions **generate, contains, transport, define, formulate, and Explain** any fundamental thing in physics:

space, time, compatible Relativity + Gravity + quantum,

matter, antimatter and their asymmetry,

Time dilation, gravity and so called dark matter,

energy, so called dark energy, space energy causing space expansion,

all elementary forces: gravity (+strong nuclear force), electromagnetic (+weak nuclear force),

elementary particles structure geometry,

physics constants like fine structure constant or elementary particles mass or electrical charges,

entanglement, warm hole, black hole, multiverse.

Energy:

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Ramions have <u>exactly equal</u> linear and rotational parts of energy named $E_{Lr} + E_{Rr}$

Linear Energy → pressure → relativity → gravity & strong Nuclear force

rotational Energy→Torque→Electricity→Electromagnetic&weak nuclear force

Basic equation of Ramionics (including 26 equations)

(1) $E_r = \left\{(E_{Lr} + E_{Rr}) = 2(E_{Lr} = E_{Rr}) = 2\left(\frac{mc^2}{2} = \frac{I\,\omega^2}{2}\right) = m\,c^2 = I\,\omega^2\right\} = 2\left\{E_{Lr} = \frac{1}{2}m\,c^2 = PV = \frac{F_{Lr}}{4\pi\,r^2}\frac{4\pi\,r^3}{3} = \frac{1}{3}r.F_{Lr}\right\} = 2\left\{E_{Rr} = \frac{1}{2}I\,\omega^2 = \frac{1}{2}(mr^2)\left(\frac{c^2}{r^2}\right) = \frac{1}{2}m\,c^2 = \frac{1}{2}r \times \left(\frac{mc^2}{r}\right) = \frac{1}{2}r \times F_{Rr} = \frac{1}{2}T = 2E_P\right\} = \left\{\hbar\,\omega_m = \hbar\frac{c}{r_m} = 4\,E_P = 4\left(\frac{k_r\,{q_r}^2}{2\,r_m}\right)\right\} = \left\{\rho_r V = (\frac{\rho_s}{\varphi})V = (\rho_s)(\frac{1}{\varphi})(\frac{4\pi\,r^3}{3}) = (\frac{c^4}{8\pi G\,R_D^2})(\frac{1}{\varphi})(\frac{4\pi\,r^3}{3})\right\} = \left\{\frac{N_{(n)}=\text{Generation n Neutrino Energy}}{1+\frac{10n^3+15n^2+11n3}{3}} = \frac{B_{(g)}=\text{Generation g Baryon Energy}}{\frac{1}{10}(12\pi)^2\,2^{6g}}\right\}$

Ramion has no problem to have speed of light because it's in energy mode (not matter) and also ramion itself generate space and time for local observers.

Ramion energy is noted as E_r in compare of other objects like baryons also Maybe it's noted as E_s (means Energy of ramion at far steady state space without any mass or time dilation in neighbourhood) in compare to ramions carrying Gravity or Electricity energy.

In pressure-gravity part of basic equation we see

(2) $\rho_r = 2P$ and $E = 2PV$

also in thermodynamics we have $\mathbf{E = \frac{f_r}{2}PV}$ **that means** $\mathbf{f_r = 4}$ when $\mathbf{f_r}$ is degree of freedom dimensions . we also can calculate it: 3 dimensions for location and 3 dimensions for ω, reduction of 2 dimensions for the equipotential surfaces results in 4.

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In rotational-electrical part of basic equation highlighted (2) multipliers (with parenthesis) represent (2) semi-spheres of ramion with electrical Potential energy of E_{PE} .

Electrical Charge is equivalent to Torque and rotational Energy so similar electrical charges repel each other so collecting them on any surface needs energy (Like any capacitor) that can be calculated by two simple integrals:

(3) $E_r = 2\,E_{Rr} = 4\,E_P = T$

(4) $E_{\Delta Q} = \int_{\infty}^{r} -F\,dr = \int_{\infty}^{r} \frac{-K_r\,Q\,\Delta Q}{R^2}\,dR = \frac{K_r\,Q\,\Delta Q}{r}$;Minus sign for save Energy

(5) $E_P = \int_{0}^{q_r} \frac{K_r\,Q\,dQ}{r} = \frac{K_r\,{q_r}^2}{2r}$;for any sphere or semi sphere with q_r charge

North and south Semi sphere of ramions have reversed torque and consequently reversed electrical charges. In energy calculation they are appeared as $(\pm q_r)^2$so adds together as positive. In torque or electrical charge they are $\pm q_r$ and compensate each other to set total electrical charge of ramion at zero.

If we consider total electrical charge of ramion, it's zero then we have to calculate equivalent energy as Torque instead of electrical charge.

Basic equation shows electrical charge is only a mechanical concept (Area × Torque**)** and we know the magnetic field and Electromagnetic wave are generated by rotating or changes in Electrical field in their turn as Maxwell's laws explain.

In Quantum part of basic equation we see

(6) $E = \hbar\,\omega_m = \hbar\,\frac{c}{r_m} \;\leftrightarrow\; c = \omega_m.\,r_m \;,\; \hbar = \frac{r_m.E}{c}$

In ramionics we define and calculate plank constant and fine structure constant easily:

When energy particles (means Ramions) and matter particles are ready to convert to each other or transport energy they must reach to similar

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radius (r_m) and angular speed $(\omega_m = \frac{c}{r_m})$ to have similar [rotational energy on total energy] ratio $(\frac{1}{2})$.

Thais happens for example in this cycle for this particles:

1-An energy particle: exited and ready to convert to matter

2-Fresh matter particle produced by energy

3-When ramions indents to supply E_P (electrical potential energy) to produce electrical force

4-When matter particles give or get electromagnetic wave energy (photons)

5-A matter particle: exited and ready to convert to energy

6-Fresh Energy particle produced by matter

Criteria to energy-matter matching:

(7) $E = T = I\,\omega^2 = \hbar\,\omega_m = 2\frac{k_r\,{q_r}^2}{r_m}$ and $c = \omega_m.\ r_m$

(8) $\rightarrow \frac{1}{\alpha_r} = \frac{\hbar\ c}{k_r\,{q_r}^2} = 2$; α_r Fine structure constant inside ramions

(9) $I = k_I\ m\ {r_m}^2 = k_I\left(\frac{E}{c^2}\right){r_m}^2 = \frac{k_I E}{{\omega_m}^2}$ and $E = I\,\omega^2$

$k_I$examples: $\frac{2}{5}$ for sphere, 1 for loop, 1 for Ramion itself

(10) $\rightarrow\ \omega_m = \sqrt{k_I}\ \omega$; needed ω_m for matter particles to transport energy with ramions; $\omega = \omega_{Ramion} = \frac{c}{r}$

Using 36390 as number of ramions in any baryon, we will show:

(11) $\frac{1}{\alpha} = 64\pi\left(\frac{10\sqrt{2}}{8\,\pi}\right)^{\frac{2}{3}}\left(1 - \frac{1}{36390}\right) = 137.03$;for B1 baryons

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Also using 12 and 36390 in FCC lattice-texture-framework we can calculate mass and electrical charge of elementary particles (passing as-yet unexplored frontiers of human knowledge)

In cosmological part of basic equation we see:

(12) $\rho_r = \frac{\rho_s}{\varphi}$, $\rho_s = \varphi\, \rho_r$, $\varphi = \frac{\pi}{3\sqrt{2}} = 74.048\%$

means energy density of space (so called dark energy) is ramions energy in their volume by factor of φ: the occupancy of ramions in their FCC lattice. We will show:

(13) $C^4 = 8\pi G \rho_s R_D^2$;where G is gravity constant

This equation relates Dark matter, Dark energy, Ramion Energy

And reality of Dark matter (forgotten gravity)

(14) $g = \frac{GM}{R}\left(\frac{1}{R} + \frac{1}{R_D}\right)e^{-\frac{R}{R_D}}$

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Geometry of Space Structure in Ramin Theory

Because the ramions repel one another in all directions, they ultimately reach a state of maximal compression. But in large scale they cause space and time to expand (dark energy's role).

So $P = \frac{\rho_r}{2}$ is the maximum capability of pressure, of cource there is many fluctuations (and also a little indentation for electromagnetic carrying) but high pressure in long time or hard collisions can cause the ramions to be collapsed and distributed to space (converting energy to mass)

Although usually both models (the FCC and HPC hexagonal) can be considered for ramion geometry, the FCC model, yields a softer space.

In the FCC model, each ramion has twelve nearest neighbours in the next layer, all tangent to it means layer 1 is very strong.

Table 1. Crystal Lattices — (FCC, BCC, HCP, Diamond)

Structure	Atoms/Cell	CN	Packing (APF)	Slip / Planes	Elements	Alloys & Applications	Mechanical Behavior
FCC (Face-Centered Cubic)	4	12	0.74 (74%) ; Vf = 0.74	12 slip systems on {111}<110> (close-packed) — easy slip	Al, Cu, Ni, Ag, Au, Pt, Pb, Ir, Pd	Austenitic stainless (γ-Fe), Ni superalloys (Inconel), Al-alloys (2xxx/6xxx/7xxx), Cu-alloys	Very ductile & tough; low DBTT; excellent formability
BCC (Body-Centered Cubic)	2	8	0.68 (68%) ; Vf = 0.68	{110}, {112}, {123}<111>; no close-packed planes → higher Peierls stress	α-Fe, Cr, W, Mo, V, Nb, Ta	Ferritic/martensitic steels, low-alloy steels; high-T strength (W, Mo)	Strong, less ductile; DBTT present; often harder/brittle at low T
HCP (Hexagonal Close-Packed)	6	12	0.74 (74%) ; Vf = 0.74	Basal {0001}<11-20> + prismatic/pyramidal; anisotropic; limited slip at RT	Mg, Ti(α), Zn, Zr, Co, Cd	Ti-6Al-4V (α+β), Mg-alloys (AZ31, ZK60), Zr-alloys (nuclear cladding)	Good specific strength; lower ductility at RT; texture-dependent
Diamond Cubic (Covalent)	8	4	≈0.34 (≈34%) ; Vf ≈ 0.34	Strong tetrahedral covalent bonds; cleavage on {111}	C (diamond), Si, Ge (SiC related	Semiconductors (Si, Ge); diamond cutting/abrasives; heat spreaders	Extremely hard, brittle; Si/Ge are semiconductors

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					polytypes)		

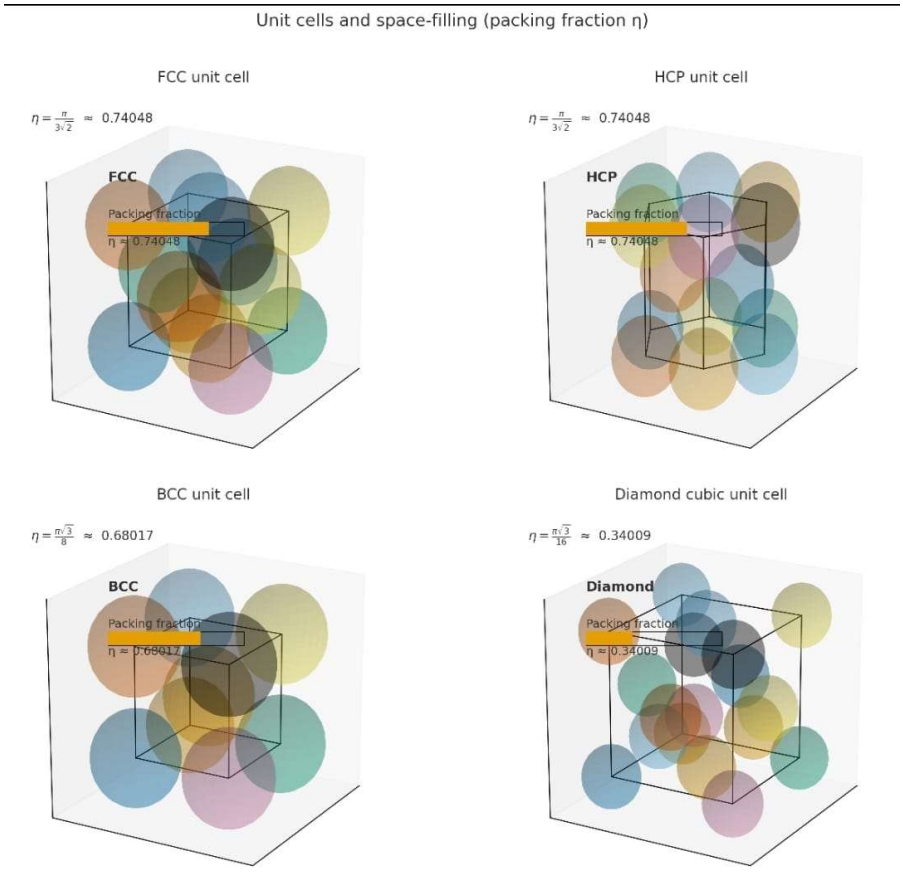

Figure 1

Geometry shows number of ramions in layer n as follows:

(15) $L(n) = 10n^2 + 2$

for example L(1)=12, L(2)=42 but L(0)=1 means centre

IL(t)=Rounded up of Inverse Function of L

The cumulative number up to and including layer N is:

(16) $T(n) = (1\ for\ centre) + \sum_{k=1}^{n}(10k^2 + 2)$

(17) $\mathrm{T(n)} = (1\ for\ centre) + \frac{10\ \ ^3+15n^2+11n}{3}$

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IT(t)=Rounded up of Inverse Function of T

(18) $\varphi = \frac{\pi}{3\sqrt{2}} = 0.74048048969$;volume occupancy

Ramion theory introduces two new geometry constant: φ′ and β:

For layers sufficiently distant from the assumed centre, we have:

(19) $\varphi \frac{4\pi}{3} R^3 = N(n)\frac{4}{3}\pi r^3$

(20) $R = \varphi' n(2r)$;φ': $diameter\ factor$

(21) $\varphi \frac{4\pi}{3} \left(\varphi' n(2r)\right)^3 = (10n^2)\frac{4}{3}\pi r^3$

(22) $\varphi' = \sqrt[3]{\frac{10}{24\varphi}} = \sqrt[3]{\frac{10\sqrt{2}}{8\pi}} = 0.8255785095$

Whether we consider ramions covered area as circle $\boldsymbol{\pi r^2}$ of their cross section area to layer sphere **or** as a hemisphere surface $\frac{\boldsymbol{4\pi r^2}}{\boldsymbol{2}}$ but with applying the cosine factor of vector multiplication,

the ratio of the ramions covered area to the layer area is **β**

(23) $(10n^2 + 2)\pi r^2 = \beta\ 4\pi R^2 = \beta\ (4\pi)\ (\varphi' n\ 2\ R)^2$

(24) $\rightarrow \beta = \frac{10}{16\varphi'^2} = \frac{10}{16\ (\frac{10\sqrt{2}}{8\pi})^{\frac{2}{3}}} = 0.91698716849$

We will see these parameters in fine structure constant that approves the geometry of energy distribution in the space means ramion lattice texture.

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Quantumized Gravity, Relativity, Strong Forece and so called Dark Matter

(25) $\rho_r = \frac{\rho_s}{\varphi}$, $\rho_s = \varphi\, \rho_r$, $\varphi = \frac{\pi}{3\sqrt{2}} = 74.048\%$

ρ_r: Ramion volume energy density
ρ_s: Space Energy density

Not only matters are not created by stopping or concentration of energy but also Matters (for particles or even huge black holes) are collapsing some ramions and distributing their energy into other ramions in the space, more close more share of energy. After that a black hole remains with radius of r1=R_H and velocity of v1. This hole equation is same in elementary particles in an atom or huge black holes in the space. 12 expanded ramions with r1 radius surround that hole. so not only light, but also mass is a wave in space. There is no particle-wave paradox except what our observation (by eye or device) and technology prefers or lets us.

When Ramions get extra energy they can't save it by increasing their pressure or velocity (light speed C) is on maximum value for this universe and there is no space to increase volume. They can tolerate a little extra pressure but only as fluctuation or short time in their dynamics and not in steady state, else they collapse consequently. Only remained way is expanding space itself. But time (for observer on ramions surface) also must be expanded (dialled) with same factor (to save c and energy values) also Space expansion factor must exactly Balance Force on any Ramion and also on its layer simultaneously:

(26) $F_{(R)} = F_s \rightarrow r_{(R)}{}^2 P'_{(R)} = r_s{}^2 P_r \rightarrow r_{(R)}{}^2 \rho'_{(R)} = r_s{}^2 \rho_r$

F_s, r, t: Ramions Bond force, radius (or perimeter), times base at far steady state space
F, r, t: relative values sensed & observed at any ramions surface
$P'_{(R)}$ *and* $\rho'_{(R)}$: relative (not absolute) energy density and pressure as the observer on surface of ramion senses. They are less than P_r *and* ρ_r and so simulate a vacuum and gravity to the hole interpreted as matter.

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(27) $\rho'_{(R)} = \rho_s\,(1 - f_{(R)})$

(28) $P'_{(R)} = P_s\,(1 - f_{(R)})$

Function $f_{(R)}$ is defined to simplify solving equations.

(29) $t_{(R)} = \frac{t_s}{\sqrt{1 - f_{(R)}}} = t_s\sqrt{\frac{\rho_s}{\rho' s}}$

(30) $r_{(R)} = \frac{r_s}{\sqrt{1 - f_{(R)}}} = r_s\sqrt{\frac{\rho_s}{\rho' s}}$

Force on m2 is calculated by integralling $p' \times dS$ on its surface:

(31) $F = \int P' \times dS \rightarrow\rightarrow F = (V_{m2} = \frac{m_2\,C^2}{\rho_s})\,(\frac{-\partial P}{\partial R})$

g: gravity acceleration toward centre means –F/m_2

(32) $F = \frac{m_2\,C^2}{\rho_s}\,(\frac{-dP}{dR}) \rightarrow \boldsymbol{g = \frac{-F}{m_2} = \frac{c^2}{2}\left(\frac{-df}{dR}\right)}$

energy balance equation:

(33) $m_1C^2 = E_{m1} = \int_0^\infty(\rho_s - \rho)\ 4\pi R^2\,dR$

(34) $m_1C^2 = 4\pi\rho_s\int_0^\infty f\,R^2\,dR$

So we have 3 criteria's:

1 - $f_{(R)}$function must be bounded between 0 to 1, Continues, Differentiable , monotonically decreasing functions, convergent to zero at infinity.

2 - $\left(\frac{-df}{dR}\right)\ functions$ Must be monotonically decreasing functions, convergent to zero at infinity.

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$3-$ $integral$ ($\int_0^\infty f\ R^2\ dR$) Must be finite and positive, so that energy can be balanced.

The general solution:

(35) $f = (\frac{B}{R})^k\ \mathrm{e}^{-(\frac{R}{A})^P}$; criteria: $0 < \mathrm{p} \leq \mathrm{k} < 3$

factor $(\frac{B}{R})^k$ is needed to decrease function in close R when exponential factor $\mathrm{e}^{-(\frac{R}{A})^P}$ is almost 1. exponential factor is needed to limit the calculated energy, forgetting this part leaded to dark matter idea.

In very close or accurate calculation we have to compute discrete equations of FCC lattice, all needed equations or supported in ramionics, but in most application continues analyses is enough:

Solution A: Integer k and p: Discreted k and p

(36) $f = \sum f_{kp} = \sum (\frac{B_{kp}}{R})^k\ e^{-(\frac{R}{A_{kp}})^P}$

Gravitational Acceleration:

(37) $g = \sum g_{kp} = \sum \frac{C^2}{2} \left(\frac{-df_{kp}}{d_R}\right) = \frac{C^2}{2} \sum (\frac{B_{kp}}{R})^k \frac{1}{R} \left\{ k + p\ (\frac{R}{A_{kp}})^p \right\}\ e^{-(\frac{R}{A_{kp}})^P}$

Energy Balance:

(38) $E = \sum E_{kp} = \sum 4\pi\rho_s\ B_{kp}^k\ A_{kp}^{3-k} z_k(p)$

(39) $z_k(p) = \left(\frac{1}{p}\right) \Gamma\left(\frac{3-k}{p}\right)$ $when\ \Gamma(n) = (n-1)!$ Gamma function

Therefore: we have 3 terms in answer :

K=1, p=1 Long Range Gravity: consist of bright Gravity (proportional to 1/R2 as great Newton and great Einstein said) and Dark Gravity at far range (so called dark matter that Ramion Theory explains and models it simply without any dark matter particle)

K=2, p=1 Middle Range Gravity (between short and long) maybe its helpful in fitting long range and short range gravities.

K=2, p=2 short Range Gravity means Strong nuclear force

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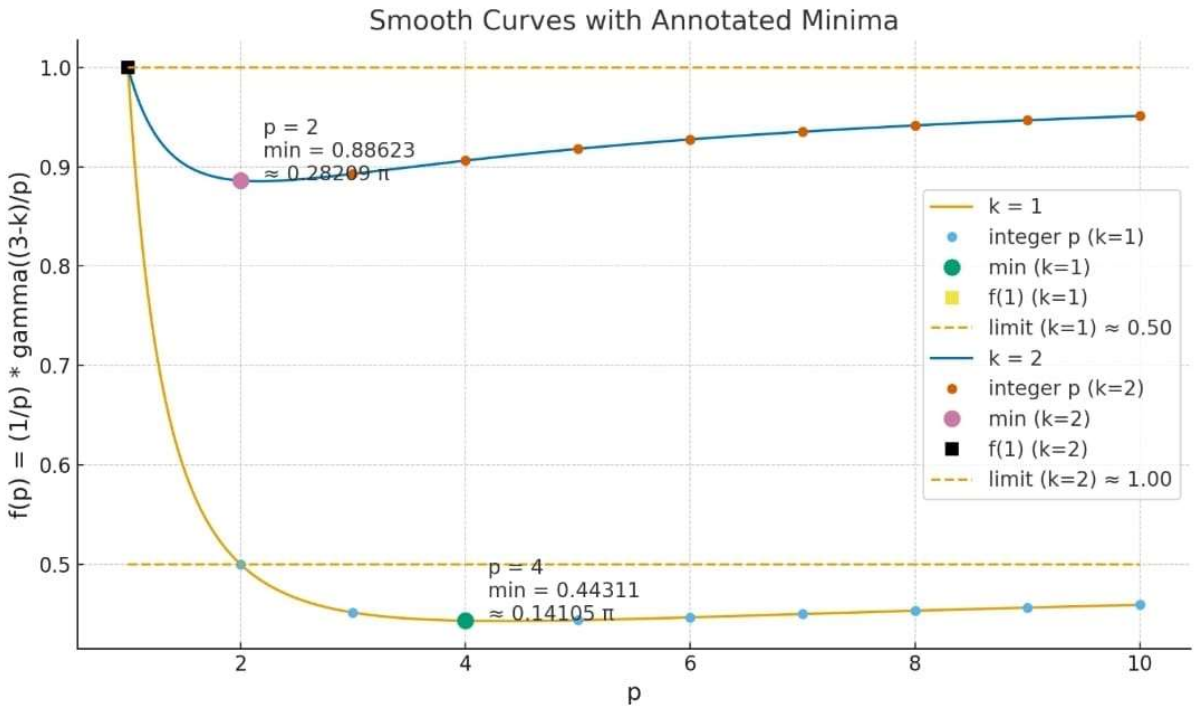

(40) $$\rho'_s = \rho_s \left(1 - \frac{R_F}{R} e^{-\frac{R}{R_D}} - \left(\frac{B_1}{R}\right)^2 e^{-\frac{R}{A_1}} - \left(\frac{B_2}{R}\right)^2 e^{-\left(\frac{R}{A_2}\right)^2} \right)$$

(41) $$g = \frac{C^2}{2R} \left\{ \begin{array}{l} \left(\frac{R_F}{R}\right)^1 \left(1 + 1\left(\frac{R}{R_D}\right)^1\right) e^{-\frac{R}{R_D}} \\ + \left(\frac{B_1}{R}\right)^2 \left(2 + 1\left(\frac{R}{A_1}\right)^1\right) e^{-\frac{R}{A_1}} \\ + \left(\frac{B_2}{R}\right)^2 \left(2 + 2\left(\frac{R}{A_2}\right)^2\right) e^{-\left(\frac{R}{A_2}\right)^2} \end{array} \right\}$$

In energy balancing we can ignore energy of k=2 parts:

(42) $$R_F = \frac{2G\,M}{RC^2} \quad \text{and} \quad g = \frac{GM}{R}\left(\frac{1}{R} + \frac{1}{R_D}\right) e^{-\frac{R}{R_D}}$$

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(43) $$E = 4\pi\rho_s \left\{ \begin{array}{c} R_F^1\, R_D^2 \int_0^\infty x\, e^{-(x)^1}\, dx \\ + B_1{}^2\, A_1{}^1 \int_0^\infty x^2\, e^{-(x)^1} dx \\ + B_2{}^2\, A_2{}^1 \int_0^\infty x^2\, e^{-(x)^2} dx \end{array} \right\}$$

(44) $E = 4\pi\rho_s\, R_F^1\, R_D^2 \rightarrow E = 4\pi\rho_s\, (R_F = \frac{2G\,M}{RC^2})\, R_D^2$

(45) $C^4 = 8\pi G \rho_s\, R_D^2$ relating light speed c , G constant, space energy density ρ_s and radius of dark gravity observation R_D.

Solution B: floating k and p: Continues k and p

As the distance R decreases from infinity to R1, parameters k=p increase from 1 to 2:

(46) $k = \mathrm{p} = \left(1 + \frac{R_1}{R}\right)$

R >> R_1 results in K=p=1

R_1 : distance between first FCC layer ramions centres and particle hole centre. $R = R_1$ means k=p=2

$R_H = \frac{R_1}{2}$: radius of central hole, R = R_H means k=p=3

R<R_H: Non-Space: No space, No time, No energy, no matter, no need to participate in integrals.

(47) $$\rho'_s = \rho_s(1-f) = \rho_s \left(1 - \left(\frac{R_F}{R}\right)^{(1+\frac{R_1}{R})}\, e^{-\left(\frac{R}{R_D}\right)^{(1+\frac{R_1}{R})}} \right)$$

For long range R>>R_1 we see Bright and Dark gravity:

(48) $\rho'_s = \rho_s(1 - \frac{R_F}{R} e^{-\frac{R}{R_D}})$

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(49) $g = \frac{G\,M}{R}\left(\frac{1}{R}+\frac{1}{R_D}\right)e^{-\frac{R}{R_D}}$

For short range R we see strong nuclear force:

(50) $\rho'_s = \rho_s(1-\left(\frac{R_F}{R}\right)^2)e^{-\left(\frac{R}{R_D}\right)^2})$

(51) $g = \frac{G\,M}{R^2}\left(2+2\left(\frac{R_F}{R}\right)^2)e^{-(\frac{R}{R_D})^2}\right)$

$energy\ balance\ same\ as\ solution A$:

(52) $\int_{R_1}^{\infty} f\ 4\pi R^2\,dR$

$=4\pi R_F\,R_D^2\ (\ 1+\frac{R_1}{R_D}(\ln(\frac{R_F}{R_D})+2\gamma\text{-}1)+O(\frac{R_1^2}{R_D^2}ln(\frac{R_D}{R_1}))\ )$

$\rightarrow C^4 = 8\pi G\rho_s\,R_D^2$ because $R_1 \ll R_D$

γ =0.5772156649 Euler – Mascheroni constant

O: big O function, Order of the error term, Asymptotic upper bond

(53) $g\int_{\frac{R_1}{2}}^{R_1} f\ 4\pi R^2\,dR = 4\pi\,R_F\,R_1^2\left(\frac{1}{2}\,ln\left(\frac{R_F}{2R_1}\right)+\frac{7}{8}\right)$

$= 12\times(energy\ of\ any\ layer\ 1\ Ramions)$

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Relativity and Time dilation

(54) $$t_{(R)} = \frac{t_s}{\sqrt{1- f_{(R)}}} = t_s\sqrt{\frac{\rho_s}{\rho\prime_s} = \frac{r^2}{{r_s}^2}} = t_s \frac{r}{r_s}$$

For example in long range part of gravity:

(55) $$t_{(R)} = \frac{t_s}{\sqrt{1-(\frac{R_F}{R})}} = \frac{t_s}{\sqrt{1-(\frac{2G\,M}{c^2\,R})}}$$

If a mass moves at speed **v**, we obtain the following relation:

(56) $$t_{(R)} = t_s\sqrt{1-(\frac{v^2}{c^2} = \frac{R_F}{R})}$$

There is no distinction between these two terms $\frac{v^2}{c^2}\ or\ \frac{R_F}{R}$ just as a body must *obtain* the speed V (escape velocity) to escape of gravity of *itself*.

However, the speed and the energy are observer-independent. When a mass "moves", the ramions effectively move in the opposite direction because mass is a hole and distributed energy in all space.

In this theory we can study time dilation more than relativity or quantum theories by above formulas.

Energy of moving objects:

We can simply form R′ function like to R′(x,y,z) or R′(R,θ,φ) or R(r, φ,z) to obtain distance of any point in space to last position of object due to ratio of its (v or ω) to c.

(in fact gravitational wave is travelling by light speed because this is maximum speed of data or energy through Ramions unless a narrow net connects two Ramions by empty geometry between other Ramions in warm hole or entanglement state)

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Anyway we consider gravity speed as c

(57) $E = \rho_s \int \frac{R_F}{R'} e^{-\frac{R'}{R_D}} dV$

for example in spherical:

(58) $E = \rho_s \int \frac{R_F}{R'} e^{-\frac{R'}{R_D}} 4\pi R^2 dR$

If an object moves with speed x along a straight line, every point in space (at distance R from it) senses it $v\,\Delta t$ behind, therefore:

(59) $\Delta x = \{(\Delta t = \frac{R}{C}) \times v\} = \frac{v}{C} R$

(60) $R' = \sqrt{\left(x + \frac{V}{C} R\right)^2 + y^2 + z^2}$

(61) $E = \frac{\rho_s 4\pi R_F R_D^2}{\sqrt{1-(\frac{V}{C})^2}} = \frac{\rho_s 4\pi \frac{2GM}{C^2} R_D^2}{\sqrt{1-(\frac{V}{C})^2}} = \frac{MC^2}{\sqrt{1-(\frac{V}{C})^2}}$

If an rotates on a circle of radius r with angular speed ω:

(62) $\Delta\theta = (\Delta t = \frac{R}{C}) w = \frac{w}{C} R$

(63) $R' = \sqrt{\left(x - r\ cos\left(-\frac{\omega}{c} R\right)\right)^2 + \left(y - r\ sin\left(-\frac{\omega}{c} R\right)\right)^2 + Z^2}$

(64) $\mathrm{E} = \rho_s \int \frac{R_F}{R'} e^{-\frac{R'}{R_D}} 4\pi R^2 dR = \rho_s R_F \pi R_D^2 = MC^2$

So in Ramin theory energy of rotating object on closed routes does not exceed MC^2.

So in Ramin theory, based on the path we simply and accurately compute the energy attributed to the object.

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Electromagnetism, weak Force and Fine Structure constant

Electrical charges: When a particle forms (i.e., a cavity or black hole devoid of ramion), then around that cavity, in a persistent manner, twelve ramion are situated.

These twelve Ramions are located around the cavity and must satisfy torque equilibrium. Therefore, they form pairs—two by two—that produce similar charge.

As a result, we have six pairs with positive and negative charge.

Among these six pairs, if all have the same sign, we have charge -e or +p.

Thus, each Ramion has the electric charge as follows: $\pm\frac{e}{12}$

If one pair is opposite to the others, then the net charge is:

(65) Q= $\pm\frac{8}{12}e = \pm\frac{2}{3}e$

And if two pairs are opposite to the other four pairs, the net charge will be as follows:

(66) Q=$\pm\frac{4}{12}\ e = \ \pm\frac{1}{3}\ e$

Ramionics describes simply why the possible charges of any particle can only be the 7 following numbers:0 or $\pm 1\ or\ \pm\frac{2}{3}\ or\ \pm\frac{1}{3}$

Electrical potential energy (Ep)

Electrical Charge is equivalent to Torque and rotational Energy so similar electrical charges repel each other so collecting them on any surface needs energy (Like any capacitor) that can be calculated by two simple integrals:

(67) $E_r = 2\ E_{Rr} = 4\ E_P =$ T

(68) $E_{\Delta Q} = \int_{\infty}^{r} -F\ dr = \int_{\infty}^{r} \frac{-\ K_r\ Q\ \Delta Q}{R^2} dR = \ \frac{K_r\ Q\ \Delta Q}{r}$ minus sign: save Energy

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(69) $E_P = \int_0^{q_r} \frac{K_r\, Q\, dQ}{r} = \frac{K_r\, {q_r}^2}{2r}$ for any sphere or semi sphere with q_r charge for particles consisted of n Ramion:

(70) $E_P = \sum_{t=2}^{n} (t-1)\ \frac{K_r\,(Q/n)^2}{2\,R_Q}$ $\quad R_Q: radius\ for\ charges\ surface$

(71) $E_p = \frac{K_r}{2\,R_Q}\left(\frac{Q}{n}\right)^2 \frac{n\,(n-1)}{n^2} = \frac{K_r\,Q^2}{2\,R_q}\left(1-\frac{1}{n}\right) = \frac{K_n\,Q^2}{2\,R_q}$

(72) $E_p = \frac{K_n\,Q^2}{2\,R_q}\ ;\ K_n = K_r\left(1-\frac{1}{n}\right);\ K_\infty = K_r$

The coefficient $\left(1-\frac{1}{n}\right)$ refines formulas and is very important and needed to compensate error of continues calculation on really discrete parameters.

We will see any baryon of generation 1 (Electron and Up and Down Quarks) is made of 36390 ramion:

It means Coulomb constant is $K_{36390} = K_r\left(1-\frac{1}{36390}\right)$

(73) $K_{36390} = 0.99997251992\ K_r$

$$K_r = 1.00002748083\ K_{36390}$$

Calculating K two particle of different type:

(74) $K_{E1,E2} = K_r\sqrt{1-\frac{E_r}{E_1}}\sqrt{1-\frac{E_r}{E_2}}$

(75) $\varepsilon_{E1,E2} = \varepsilon_r\sqrt{1-\frac{E_r}{E_1}}\sqrt{1-\frac{E_r}{E_2}}\ ;K_r = \frac{1}{4\pi\,\varepsilon_r}$

Fine Construction Constant

(76) Definition: $\alpha_{B1} = \frac{K_{B1}\,e^2}{\hbar\,c} \longleftrightarrow K_{B1} = \frac{\alpha_{B1}\,\hbar\,c}{e^2}$

In Ramionics we know Electrical Field is carried by Ramions with their indentation proportional to their E_P (Electrical Potential Energy) and if pure force between electron and neutron is zero So we can say all baryons of generation 1 (down and up quarks and electrons) are similar

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(with same total E we name it E_{B1}) with equal radius so their $E_P = \frac{kq^2}{2r}$ is proportional to q^2

Alpha measured values for B1 Baryons (electron, up, down)

(77) $\frac{1}{\alpha} = 137.035999046(\pm 27)$ Cz recoil (Berkeley 2018)

(78) $\frac{1}{\alpha} = 137.035999206(\pm 11)$ Rb recoil (LKB,Paris 2020)

(79) $\frac{1}{\alpha} = 137.035999177(\pm 21)$ CODATA (2022) ; Committee on Data for Science and Technology

In Ramionics we see all B1 (baryons of generation 1: Down Quark, Up Quark, Electron) have total energy (Mass + E_P) of:

(80) $\frac{E_{Bg}}{E_r} = \frac{4}{10}(12\pi)^2\ 2^{6g} \rightarrow \frac{E_{B1}}{E_r} = 36383.3$

$rounded\ up\ to\ mutiplier\ of\ 10 \rightarrow \frac{E_{B1}}{E_r}$ =36390

it means any B1 is made by collapsing 36390 Ramions

{Origin of above equation is exponential nature of collapsing ramions when transform to matter. 12 represents 12 ramions around particle hole and they carry all rotation or electrical charges.

12 and 10 are needed to have strong layer on outer layer of particles. Layer 0 (centre) and layer 1 (L(1)=12) and layer ∞ (L(n)=10n2+2≈10n2) are the strongest layers so we can say multiplier of 10 and 12 are the strongest layers In FCC they are forced into equation by FCC geometry and $L(n) = 10n^2 + 1$ equation }

(81) $\frac{1}{\alpha_\infty} = \pi\ \alpha'^2\ 2^{6g} = \pi\ \left(\frac{10\sqrt{2}}{8\pi}\right)^{\frac{2}{3}}\ 2^6 = 137.03976507112$

{Origin of above equation:

$\frac{1}{\alpha_r} = \frac{\hbar\ c}{k_r\ {q_r}^2} = 2\ \ ;\ \alpha_r : fine\ structure\ constant\ for\ ramions$

2^{6g}: *needed to compencate increasing in radius and decreasing in EPE when* E_B grows by 2^{6g}factork

α'^2: *needed to calculate* $R^2 = (n2r\alpha')^2$

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We calculated α′ in FCC lattice geometry of space:

(82) $\alpha' = \left(\frac{10\sqrt{2}}{8\pi}\right)^{\frac{1}{3}} = 0.8255785095$

(83) $\frac{1}{\alpha_{E1,E2}} = \frac{1}{\alpha_\infty}\sqrt{1-\frac{E_r}{E_1}}\sqrt{1-\frac{E_r}{E_2}}$; $\alpha\ for\ particles\ E1\ \&\ E2$

(84) $\frac{1}{\alpha_{B1}} = \frac{1}{\alpha_\infty}(\sqrt{1-\frac{1}{36390}})^2 = 137.03599920783$; for any B1

When we calculate electrical force by $\frac{\alpha\,\hbar\,c}{R^2}$ there is no need to multiply $\sqrt{1-\frac{E}{E_1}}$ factors but alpha is defined as $\alpha_{B1} = \frac{K_{B1}\,e^2}{\hbar\,c}$ so alpha needs to be divided by $\sqrt{1-\frac{E}{E_1}}$ means $\frac{1}{\alpha_{B1}}$ needs to be multiplied in $\sqrt{1-\frac{E}{E_1}}$ factors.

So Electrical Force depends on Total Energy of particle, More Energy means larger Radius, Less Ep, Less Force. We need to double check mass and electrical charge measured or calculated for Heavy Particles (B1 next generation).

Electrical field distribution calculation sample:

Ramions supply E_{Pe} easily by getting align with electrical field and a little indentation, with giving Energy of overlapped volume to space and a little decreasing in their pressure. No need to expand or stretch Space-Time. They need manipulating space time when receiving energy not at sending energy because they can't increase the pressure. This process describes how electrical field is distributed without any energy or need to photon or electrical field lines.

This Negative Equivalent Mass or energy and force (maybe in combination with the strong nuclear force) and possibility of collapsing Ramion because of too indentation is modelled by weak nuclear force.

Suppose two particles $(Q1, R1, r1 = r_{m1})\ and\ (Q2, R2, r2 = r_{m2})$

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Q2 on centre and Q1 on Z axis at far distance: R>>R1 and R>>R2

(85) $V_{common} = 2V_{cap} = 2\pi d^2 r(1 - \frac{d}{3r})$

r, v: $ramions\ radius$ and volume , d: indentation depth

$any\ commom\ \ volume\ consists\ of\ 2\ cap$s

(86) $\frac{V_c}{V} = \frac{3}{2}\left(\frac{d}{r}\right)^2\left(1 - \frac{d}{3r}\right) = \frac{3}{2}\left(\frac{d}{r}\right)^2\ ;\ d \ll r$

Electrical Potential Energy of Q1

(87) $E_{p1} = \frac{K_r}{2R_1} {Q_1}^2 (1 - \frac{E_r}{E_{Q1}})$

(88) $R_1 = \sqrt{5}\, r_1$; a little larger than $2r_1$

Radius of an electrically charged particles must be defined on a radius that sum of internal part of ramions is exactly equal to sum of external part of ramions. $\sqrt{5}$ is calculated by geometry. r1 is the radius of central hole = radius of any of 12 ramions surrounded it.

(89) $E_{p1} = 12\, E_{Q1L1}\ \frac{V_c}{V} = \ 18\, \rho_r \left(\frac{d_1}{r_1}\right)^2$;; $E_p supplied\ by\ indentation$

E_{Q1L1}: Energy of layer 1 ramions of Q1

d1: indentation of layer 1 to layer 2 to supply Electrical potential energy. layer2 will get total of this energy be indentation to layer 2 and …This process explain how electrical field is distributed in the space.

(90) $E_{p1} = \ \rho_r 2\pi r\ (d_n)^2\ L(n)\ ; E_p\ Distribution\ on\ layer\ n$

(91) $L(n) = \ 10n^2 + 2\ ; R =$α′n2r ; from Fcc Geometry

(92) $E_{p1} = \rho_r 2\pi r\ (d_n)^2 \frac{10R^2}{4\ \alpha'^2\ \ r^2}$ $\quad ; E_{p1} = \frac{K_r}{2\ R_1} {Q_1}^2 (1 - \frac{E_r}{E_{Q1}})$

(93) ${d_{(R)}}^2 = \frac{\alpha'^2}{10\,\pi}\ \frac{k_r}{\rho_r}\ {Q_1}^2 \left(1 - \frac{E_r}{E_{Q1}}\right) \frac{r}{R_1} \frac{1}{R^2}$ $\quad \rightarrow d: Proportional\ to\ \frac{1}{R}$

pressuring part of ramions energy supports **Ep energy** while **rotating part** of ramions energy carries **electrical Force**. **So electrical field distributes to infinity by indentation without and force and without any energy**. Until it hits to another electrical charge Q2.

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At **first step** we suppose Q1>>Q2 so ramions layer 1 of Q2 have indentation normal to z axis due to Q1 (anyway their torque direction is from centre of Q2)

Moment of inertia in parallel with rotation axis:

(94) $I_{\parallel} = I_Z = \frac{\pi\, m}{60} d^3(40\, r^2 - 30\, d\, r + 6\, d^2)$

Moment of inertia Normal to rotation axis:

(95) $I_{\perp} = I_X = \frac{\pi\, m}{60} d^2(60\, r^3 - 80\ d\, r^2 + 45\ d^2 r - 9\, d^3)$

Total Moment of inertia as great Edward John Routh explained:

(96) $I = I_{\parallel}\, Cos^2\theta + I_{\perp}\, Sin^2\theta$

(97) $F_Z = \frac{\pi}{4}\, \rho_m \omega^2 d^2 (2r_2 - d)^2 Sin^2\theta$

F_z or Force toward Q1 generated by rotation of any ramion around Q2 black hole:

(98) $F_Z = \pi \frac{\rho_r}{c^2} \omega^2 d^2 {r_2}^2 Sin^2\theta\ ;\ \rho_m = \frac{\rho_r}{c^2}\ ;\ r_2 \ll d$

(99) $F_Z = \pi\, \rho_r \frac{d^2 {r_2}^2}{r^2} Sin^2\theta\ \ ; c = r\omega$

(100) $F_2 = (8\ (sin\ \frac{\pi}{4})^2 + 4\,(sin\ \frac{\pi}{2})^2)\ F_Z \quad ; F\ of\ Q_1 on\ Q_2$

(101) $F_2 = 8\ F_Z$

(102) $F_2 = 8\pi\, \rho_r \frac{{r_2}^2}{r^2} d^2 \quad ; {d_{(R)}}^2 = \frac{\alpha'^2}{10\,\pi} \frac{k_r}{\rho_r} {Q_1}^2 \left(1 - \frac{E_r}{E_{Q1}}\right) \frac{r}{R_1} \frac{1}{R^2}$

(103) $F_2 = \frac{8\ \alpha'^2}{10} \frac{{r_2}^2}{r\, R_1\, R^2} k_r {Q_1}^2 \left(1 - \frac{E_r}{E_{Q1}}\right)$

to make symmetry and remove criteria $Q_1 \gg Q_2$:

(104) $F_1 = \frac{8\ \alpha'^2}{10} \frac{{r_1}^2}{r\, R_2\, R^2} k_r {Q_2}^2 \left(1 - \frac{E_r}{E_{Q2}}\right)$

(105) $F = F_{Q1,Q2} = \sqrt{F_1 F_2}$

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(106) $$F = \frac{8\,\alpha'^2}{10}\sqrt{\frac{{r_1}^2}{r\,R_1}}\sqrt{\frac{{r_2}^2}{r\,R_2}}\,\frac{k_r Q_1 Q_1}{R^2}\sqrt{1-\frac{E_r}{E_{Q1}}}\sqrt{1-\frac{E_r}{E_{Q2}}}$$

(107) $$\frac{8\,\alpha'^2}{10}\sqrt{\frac{{r_1}^2}{r\,R_1}}\sqrt{\frac{{r_2}^2}{r\,R_2}}=1$$

From geometry of FCC:

(108) $R1 = \sqrt{5}\times R_H\,;R_H = radius\ of\ Hole =$ $Radius\ of\ first\ Layer$

(109) $$\frac{8\,\alpha'^2}{10}\,\frac{{r_1}^2}{r\,R_1} = 1 \rightarrow R_1 = \frac{50\,\alpha'^2}{8}\,r$$=19.60032501919 r

$If\ we\ consider\ alpha\ proportional\ to\ 1/m\ and\ \alpha'^2 and\ R_1$

$are\ proportinal\ to\ m$:

$$R_1 = \frac{19.60032501919}{36390\quad 1.995748254\times 10^{-17}}\,r$$

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Explanation of matter–antimatter Asymmetry

Our Universe is similar to a Ramion—perhaps a ramion nested within its mother cosmos, with the possibility of an unbounded mother–daughter hierarchy, or even a recursion in which the whole curls back into its own core. In any case, the only plausible rationale for the breaking of matter–antimatter symmetry is that our Universe is currently performing the rotation.

If, in our surroundings (i.e., within the hemisphere of the Universe we inhabit), the rotation is such that a slight negative charge resides in the internal vacuum of space, then this small excess (together with electric-charge conservation) drives the heavier particles to become + and the lighter particles to become −.

Thus, in the other hemisphere of our universe, antimatter may perhaps dominate.

Therefore, if cosmological observations in our vicinity allow us to determine the prevailing direction of rotation, that direction, reflected within the ramion, can likewise indicate whether a clockwise produces of a ramion corresponds to positive or to negative charge.

Photon is not merely an electromagnetic wave; macroscopic bodies may likewise be regarded as hypothetical quanta. Accordingly, both material quanta and photon are, in essence, waves rather than particles. Under certain observational conditions, however, they may be perceived and registered as particles.

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Photons and ħ in Ramionics

A single Ramion cannot act as a photon on its own, because it would have to change either its rotational speed or its direction of rotation, and it has no force to accomplish either.

Consequently, the electric field generated by the rotation of the Ramion—and, on larger scales, as described by the Maxwell's equations—by its own rotation gives rise to a magnetic field. However, since this energy transfer ultimately proceeds in the form of Ramion quanta, it can be regarded as a quantum of energy, termed photon. The energy of this photon is similar to the hypothetical Coriolis force:

(110) $$F = m(c) \times w$$

(111) $$E = m\,(rv) \times w = mrc\,w =$$

$$\hbar = mrc \quad [reduced\ Planck\ constant\ ] \rightarrow E = \hbar\, w \quad [For\ photon]$$

$$[For\ real\ Ramion]\ \hbar\, c = mrc^2 = m\, c^2\, r = er$$

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Elementary particles, QFT, QCD and Strings Theory

Figure 2: **Elementary particle table**

In the ramion, not only the fine-structure constant but also the reason for the electric charges $0, \pm 1, \pm\frac{2}{3}$ *or* $\frac{1}{3}$, the matter–antimatter asymmetry, and the specific masses of the elementary particles are readily calculable.
With the Ramion theory, the dynamics of ramion (elementary-particle) reactions can likewise be modelled with the highest conceivable precision.

In space geometry we saw $L(n)=10n^2+2$=(number of ramions of layer n) and

$T(n)=1+(10n^3+15n^2+11n)/3$=(number of ramions from centre to layer n).

Strong layers: When Ramions (means Energy) is converting to matter particles, it means some ramions collapse and explode their energy into space consequently but Strong Layers protect space network and universe against full collapsing.

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Calculating them needs huge computers but Ramionics suggests easiest way:

They are most similar layers to real Sphere so:

1-They are similar to layer 0 (solo centre) or 1(with 12 tangent Ramions) so their number is multiples of 12

2-They are similar to very large layers ($10n^2+2$) so their number is multiples of 10

So strong layers are 120K or 120/K

but very strong layers are:

$N_{Strong} = 120 \times 2^{2n}$; n: integer

Because Surface and volume grows proportional to 2^{4n} and 2^{6n} and torque (electrical charge) balance and distribution is repeat as previos generation easily. 6 is multiplier of 2 (for surface) and 3(for volume) so 2^{6n} is the best multiplier to copy stability of layer 120;

So we can expect baryon mass grows by g=generation as 2^{6n}=32^n

Neutrinos are simple particles without electrical charge or any type of quark.

For example

N(4)=N309 ; T(4)=1+12+42+92+162

They are usually formed by collapsing layers 1 to n and making k neutrinos also they can be received or transmitted (radiated) in Ramionic reactions so they can have catalytic effect or start, Relax (Temporarily reduce speed to complete some stages like electrical charges stabling) and finally balance energy then stop a Ramionic reaction.

Huge Black Hole are neutrino type.

Neutrinos have wide range of mass and electrical charge free, short duration with electrical charge

Baryons have special range of mass and electrical charge free, short duration with electrical charge

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Stable baryons:

(112) $\frac{E_{Bg}}{E_r} = \frac{(12\varphi)^2}{20} 2^{6g} = \frac{4}{10}(12\pi)^2\, 2^{6g} \rightarrow \frac{E_{B1}}{E_r} = 36383.3$

(113) $rounded\ up\ to\ mutiplier\ of\ 10 \rightarrow \frac{E_{B1}}{E_r} = 36390$

it means any B1 is made by collapsing 36390 Ramions

In above formula 2^{6g} represent very strong layers formula means 120,4*120,16*120,…

12 and 10 are forced by FCC geometry to have most symmetrical and effective torque balance and distribution to have electrical charge

We can predict heavier baryons in next generation to have total energy of 36390×64, 36390×64×64,…

In Ramionic reactions **most similar, large, stable packets** and particles are produced **So Layer 119 products are:**

(114) **T(119) =5688439=5*(31(36390+309)+ 18)+4 ;309=N(4)**

Any packet can be transformed to 15 U +9 D +7 after electrical charging then transform to (7 proton+7electron+1 neutron) after getting extra energy

31,15,7 in this packaging are $2^n - 1$ and 9 is $2^n + 1$ means neutron to proton ratio off 7

(115) $\frac{Nutrino\ Energy}{Baryon\ Energy} = \frac{5*31*309+5*18+4}{5*31*36390} = \frac{46429}{5640450} = 0.823143544\%$ until layer 120

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(116) $\frac{Neutron}{Proton}$
$Energy$

We see one neutrino N(4) is generated with any EUD in the major Ramionic reaction. some of generated neutrino continues this reaction to more layers to convert B1 to NPE (Neutron proton electron) the others starts new reactions and remained neutrinos may be be radiated and even participate in Cosmic microwave Neutrino **CvB** or Cosmic microwave background **CMB.**

Layer 120 can't resist against collapsing Anyway collapsing continues until the next very strong layer 120*4=480

5 Encp=155>8*18=8*Ecp

So if there was enough time, 5 uncharged packets B1 (including Ep) could be transform to 8 charged packet (Up, Down quarks and electrons) but only one extra packet is made and maybe Ep energy releasing after the first extra packages helps to collapsing layer 120.

After that process speed is very high and released energy can only saved as rotational energy (Magnetic energy) on neutron and proton (electron is ignored in our approximation because of less radius compared to proton and neutron

Higgs Boson:

IT(126 GeV/ Es)=671

Accurate Energy of Z Boson=T(660-1)*Es=119.130 GeV

Higgs boson is NT(659) ;no need to explain the mass in ramionics

Z Boson:

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IT(91.2 GeV/ Es)=603

Accurate Energy of Z Boson=T(600-1)*Es= 89.484166 GeV

Z boson is NT(599)

W Boson:

IT(80.4 GeV/ Es)=578 not acceptable

IT(2*80.4 GeV/ Es)=728 ;we know they are couple

Accurate Energy of W Boson=T(720-1)*Es/2=77.346542 GeV

W bosons are generated in special reaction with two + - production.

;no need to explain the weak nuclear force in ramionics

Ramionics need no Energy or Force carrier or mass generator particle (like H boson) or Dark matter or Dark energy. all of them simply are explained by Ramions. Other particle may be wrong interpret or huge neutrino or complex particles. because in Ramionics we now 12 ramions around any particle hole have electrical charge even on Neutral particles so any particle can have 12 bond with other particles. In proton and neutron central particle uses only 2 bonds.

Ramionics is compatible with QFD except that in Ramionics there is only one fluctuating field: Ramions,

Ramionics help QCD o do more effective calculation without gluon

Ramionic models space-Time particles but real and 3 Dimensional.

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Cosmology and multiverse

In Ramin theory, bridges have been built not only between gravitation and electromagnetism (the so-called four fundamental forces) and between relativity and the quantum, without singularities for everything from the smallest particles to the largest black holes.

For example, the followings, relate dark matter and the energy density of space (e.g., dark energy):

(117) (far Gravity For k=1, p=1) $F = \frac{2\,GM}{C^2R}\left(\frac{1}{R}+\frac{1}{R_D}\right)e^{-\frac{R}{R_D}}$

(118) $R_D^2 = \frac{C^4}{8\pi\ G\ \rho_s}\ , C^4 = 8\pi G\rho_s\ R_D^2$

Above formula relating light speed c , G constant, space energy density ρ_s and radius of dark gravity observation R_D.

(119) $\rho_s = 5.4 \times 10^{-10}\ \frac{\mathrm{J}}{m^3} \rightarrow R_D = 9.46 \times 10^{25} m = 10^{10}\ LY$

(120) $R_D = 10^4\ LY \rightarrow \rho_s = 540\ \frac{\mathrm{J}}{m^3} \rightarrow \rho_s = 729\ \frac{\mathrm{J}}{m^3}$

This theory models matter, dark matter, and waves by altering the arrangement of Ramions, and therefore only the energy of space must be taken into account in calculations of the age and dimensions of the Universe.

Studies based on this theory open many avenues concerning the expansion of the Universe, the Big Bang, and cosmology, in addition to relativity, quantum theory, and elementary particles.

In Ramion Theory all of universe is filled by Ramion, Ramion and space energy density is same even close to matter, so **maybe** we have to consider Dark energy (= Space energy density) share as 100% in calculation on Hubble constant H0, means 14.46×10^9 year Universe age and 14.46×10^9 LY observable radius.

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Ramin theory and philosophy

On the one hand, ramions remove the finger of God from the fine-structure constant and fine tuning, and place the burden upon geometry!

On the other hand, they indicate that our entire Universe could be a ramion within a more transcendent universe; conversely, our Universe may be the mother or daughter of other universes. Perhaps this chain is infinite, or perhaps it returns to itself—our Universe may be, for example, the mother of its own mother's mother.

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